**1)Salary**

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| >  ###################naviya byaise################  > ###################salary###############  > salary<-read.csv(file.choose())  > str( salary)  'data.frame': 30161 obs. of 14 variables:  $ age : int 39 50 38 53 28 37 49 52 31 42 ...  $ workclass : Factor w/ 7 levels " Federal-gov",..: 6 5 3 3 3 3 3 5 3 3 ...  $ education : Factor w/ 16 levels " 10th"," 11th",..: 10 10 12 2 10 13 7 12 13 10 ...  $ educationno : int 13 13 9 7 13 14 5 9 14 13 ...  $ maritalstatus: Factor w/ 7 levels " Divorced"," Married-AF-spouse",..: 5 3 1 3 3 3 4 3 5 3 ...  $ occupation : Factor w/ 14 levels " Adm-clerical",..: 1 4 6 6 10 4 8 4 10 4 ...  $ relationship : Factor w/ 6 levels " Husband"," Not-in-family",..: 2 1 2 1 6 6 2 1 2 1 ...  $ race : Factor w/ 5 levels " Amer-Indian-Eskimo",..: 5 5 5 3 3 5 3 5 5 5 ...  $ sex : Factor w/ 2 levels " Female"," Male": 2 2 2 2 1 1 1 2 1 2 ...  $ capitalgain : int 2174 0 0 0 0 0 0 0 14084 5178 ...  $ capitalloss : int 0 0 0 0 0 0 0 0 0 0 ...  $ hoursperweek : int 40 13 40 40 40 40 16 45 50 40 ...  $ native : Factor w/ 40 levels " Cambodia"," Canada",..: 38 38 38 38 5 38 22 38 38 38 ...  $ Salary : Factor w/ 2 levels " <=50K"," >50K": 1 1 1 1 1 1 1 2 2 2 ...  > class(salary)  [1] "data.frame"  > View(salary)  > salary\_test<-read.csv(file.choose())  > salary\_train<-read.csv(file.choose())  > salary\_train$educationno<-as.factor(salary\_train$educationno)  > salary\_test$educationno<-as.factor(salary\_test$educationno)  > library(e1071)  > salary\_model<-naiveBayes(salary\_train$Salary~.,data=salary\_train)  > salary\_model  Naive Bayes Classifier for Discrete Predictors  Call:  naiveBayes.default(x = X, y = Y, laplace = laplace)  A-priori probabilities:  Y  <=50K >50K  0.7510693 0.2489307  Conditional probabilities:  age  Y [,1] [,2]  <=50K 36.60826 13.46489  >50K 43.95911 10.26963  workclass  Y Federal-gov Local-gov Private Self-emp-inc  <=50K 0.0255153843 0.0643623361 0.7685074825 0.0209243809  >50K 0.0486148109 0.0811134790 0.6494405967 0.0799147576  workclass  Y Self-emp-not-inc State-gov Without-pay  <=50K 0.0787975103 0.0412748863 0.0006180197  >50K 0.0950985615 0.0458177944 0.0000000000  education  Y 10th 11th 12th 1st-4th 5th-6th  <=50K 0.0335937845 0.0436586766 0.0153622037 0.0064009182 0.0121838167  >50K 0.0078582845 0.0078582845 0.0038625466 0.0007991476 0.0015982952  education  Y 7th-8th 9th Assoc-acdm Assoc-voc Bachelors  <=50K 0.0230433055 0.0189820333 0.0331964861 0.0425109257 0.1288129608  >50K 0.0046616942 0.0033297816 0.0340969632 0.0458177944 0.2831646244  education  Y Doctorate HS-grad Masters Preschool Prof-school  <=50K 0.0041937050 0.3629982784 0.0312982828 0.0019864919 0.0060036198  >50K 0.0372935535 0.2153702717 0.1222695791 0.0000000000 0.0540756526  education  Y Some-college  <=50K 0.2357745111  >50K 0.1779435269  educationno  Y 1 2 3 4 5  <=50K 0.0019864919 0.0064009182 0.0121838167 0.0230433055 0.0189820333  >50K 0.0000000000 0.0007991476 0.0015982952 0.0046616942 0.0033297816  educationno  Y 6 7 8 9 10  <=50K 0.0335937845 0.0436586766 0.0153622037 0.3629982784 0.2357745111  >50K 0.0078582845 0.0078582845 0.0038625466 0.2153702717 0.1779435269  educationno  Y 11 12 13 14 15  <=50K 0.0425109257 0.0331964861 0.1288129608 0.0312982828 0.0060036198  >50K 0.0458177944 0.0340969632 0.2831646244 0.1222695791 0.0540756526  educationno  Y 16  <=50K 0.0041937050  >50K 0.0372935535  maritalstatus  Y Divorced Married-AF-spouse Married-civ-spouse  <=50K 0.1660707191 0.0004855869 0.3384099236  >50K 0.0602024507 0.0013319126 0.8522908897  maritalstatus  Y Married-spouse-absent Never-married Separated Widowed  <=50K 0.0149649053 0.4085551583 0.0385379420 0.0329757648  >50K 0.0041289291 0.0625998934 0.0087906233 0.0106553010  occupation  Y Adm-clerical Armed-Forces Craft-repair Exec-managerial  <=50K 0.1422769611 0.0003531541 0.1378183905 0.0907164614  >50K 0.0663292488 0.0001331913 0.1209376665 0.2579914758  occupation  Y Farming-fishing Handlers-cleaners Machine-op-inspct  <=50K 0.0385820863 0.0559307818 0.0759281331  >50K 0.0153169952 0.0110548748 0.0326318594  occupation  Y Other-service Priv-house-serv Prof-specialty Protective-serv  <=50K 0.1359643314 0.0062684854 0.0983092747 0.0191586103  >50K 0.0175812467 0.0001331913 0.2412093767 0.0279701652  occupation  Y Sales Tech-support Transport-moving  <=50K 0.1153931047 0.0279874630 0.0553127621  >50K 0.1291955248 0.0370271710 0.0424880128  relationship  Y Husband Not-in-family Other-relative Own-child Unmarried  <=50K 0.299474683 0.304727851 0.037655057 0.194323048 0.132388646  >50K 0.756393181 0.109616409 0.004661694 0.008524241 0.028369739  relationship  Y Wife  <=50K 0.031430716  >50K 0.092434736  race  Y Amer-Indian-Eskimo Asian-Pac-Islander Black Other  <=50K 0.011124354 0.028561338 0.108197590 0.009270295  >50K 0.004528503 0.033031433 0.048748002 0.002797017  race  Y White  <=50K 0.842846422  >50K 0.910895045  sex  Y Female Male  <=50K 0.3826866 0.6173134  >50K 0.1481087 0.8518913  capitalgain  Y [,1] [,2]  <=50K 148.9004 936.4124  >50K 3937.6798 14386.0600  capitalloss  Y [,1] [,2]  <=50K 53.35302 309.9476  >50K 193.75067 592.8256  hoursperweek  Y [,1] [,2]  <=50K 39.34856 11.95104  >50K 45.70658 10.73699  native  Y Cambodia Canada China Columbia Cuba  <=50K 0.0004855869 0.0031342427 0.0021189246 0.0023837902 0.0029576657  >50K 0.0009323388 0.0047948855 0.0026638253 0.0002663825 0.0033297816  native  Y Dominican-Republic Ecuador El-Salvador England  <=50K 0.0028693771 0.0010153181 0.0040171280 0.0024720788  >50K 0.0002663825 0.0005327651 0.0011987214 0.0039957379  native  Y France Germany Greece Guatemala Haiti  <=50K 0.0006621640 0.0037081181 0.0009270295 0.0026486558 0.0016774820  >50K 0.0015982952 0.0058604156 0.0010655301 0.0003995738 0.0005327651  native  Y Honduras Hong Hungary India Iran  <=50K 0.0004855869 0.0005738754 0.0004414426 0.0026486558 0.0010594623  >50K 0.0001331913 0.0007991476 0.0003995738 0.0053276505 0.0023974427  native  Y Ireland Italy Jamaica Japan Laos  <=50K 0.0008387410 0.0019423476 0.0030900984 0.0015891935 0.0006621640  >50K 0.0006659563 0.0031965903 0.0013319126 0.0030633990 0.0002663825  native  Y Mexico Nicaragua Outlying-US(Guam-USVI-etc) Peru  <=50K 0.0254712400 0.0013684722 0.0006180197 0.0012360394  >50K 0.0043953117 0.0002663825 0.0000000000 0.0002663825  native  Y Philippines Poland Portugal Puerto-Rico Scotland  <=50K 0.0056504657 0.0019864919 0.0013243279 0.0042819936 0.0003972984  >50K 0.0079914758 0.0014651039 0.0005327651 0.0015982952 0.0002663825  native  Y South Taiwan Thailand Trinadad&Tobago  <=50K 0.0025162230 0.0010153181 0.0006180197 0.0007063082  >50K 0.0018646777 0.0025306340 0.0003995738 0.0002663825  native  Y United-States Vietnam Yugoslavia  <=50K 0.9053546992 0.0026045115 0.0004414426  >50K 0.9316728823 0.0006659563 0.0007991476  > salary\_model  Naive Bayes Classifier for Discrete Predictors  Call:  naiveBayes.default(x = X, y = Y, laplace = laplace)  A-priori probabilities:  Y  <=50K >50K  0.7510693 0.2489307  Conditional probabilities:  age  Y [,1] [,2]  <=50K 36.60826 13.46489  >50K 43.95911 10.26963  workclass  Y Federal-gov Local-gov Private Self-emp-inc  <=50K 0.0255153843 0.0643623361 0.7685074825 0.0209243809  >50K 0.0486148109 0.0811134790 0.6494405967 0.0799147576  workclass  Y Self-emp-not-inc State-gov Without-pay  <=50K 0.0787975103 0.0412748863 0.0006180197  >50K 0.0950985615 0.0458177944 0.0000000000  education  Y 10th 11th 12th 1st-4th 5th-6th  <=50K 0.0335937845 0.0436586766 0.0153622037 0.0064009182 0.0121838167  >50K 0.0078582845 0.0078582845 0.0038625466 0.0007991476 0.0015982952  education  Y 7th-8th 9th Assoc-acdm Assoc-voc Bachelors  <=50K 0.0230433055 0.0189820333 0.0331964861 0.0425109257 0.1288129608  >50K 0.0046616942 0.0033297816 0.0340969632 0.0458177944 0.2831646244  education  Y Doctorate HS-grad Masters Preschool Prof-school  <=50K 0.0041937050 0.3629982784 0.0312982828 0.0019864919 0.0060036198  >50K 0.0372935535 0.2153702717 0.1222695791 0.0000000000 0.0540756526  education  Y Some-college  <=50K 0.2357745111  >50K 0.1779435269  educationno  Y 1 2 3 4 5  <=50K 0.0019864919 0.0064009182 0.0121838167 0.0230433055 0.0189820333  >50K 0.0000000000 0.0007991476 0.0015982952 0.0046616942 0.0033297816  educationno  Y 6 7 8 9 10  <=50K 0.0335937845 0.0436586766 0.0153622037 0.3629982784 0.2357745111  >50K 0.0078582845 0.0078582845 0.0038625466 0.2153702717 0.1779435269  educationno  Y 11 12 13 14 15  <=50K 0.0425109257 0.0331964861 0.1288129608 0.0312982828 0.0060036198  >50K 0.0458177944 0.0340969632 0.2831646244 0.1222695791 0.0540756526  educationno  Y 16  <=50K 0.0041937050  >50K 0.0372935535  maritalstatus  Y Divorced Married-AF-spouse Married-civ-spouse  <=50K 0.1660707191 0.0004855869 0.3384099236  >50K 0.0602024507 0.0013319126 0.8522908897  maritalstatus  Y Married-spouse-absent Never-married Separated Widowed  <=50K 0.0149649053 0.4085551583 0.0385379420 0.0329757648  >50K 0.0041289291 0.0625998934 0.0087906233 0.0106553010  occupation  Y Adm-clerical Armed-Forces Craft-repair Exec-managerial  <=50K 0.1422769611 0.0003531541 0.1378183905 0.0907164614  >50K 0.0663292488 0.0001331913 0.1209376665 0.2579914758  occupation  Y Farming-fishing Handlers-cleaners Machine-op-inspct  <=50K 0.0385820863 0.0559307818 0.0759281331  >50K 0.0153169952 0.0110548748 0.0326318594  occupation  Y Other-service Priv-house-serv Prof-specialty Protective-serv  <=50K 0.1359643314 0.0062684854 0.0983092747 0.0191586103  >50K 0.0175812467 0.0001331913 0.2412093767 0.0279701652  occupation  Y Sales Tech-support Transport-moving  <=50K 0.1153931047 0.0279874630 0.0553127621  >50K 0.1291955248 0.0370271710 0.0424880128  relationship  Y Husband Not-in-family Other-relative Own-child Unmarried  <=50K 0.299474683 0.304727851 0.037655057 0.194323048 0.132388646  >50K 0.756393181 0.109616409 0.004661694 0.008524241 0.028369739  relationship  Y Wife  <=50K 0.031430716  >50K 0.092434736  race  Y Amer-Indian-Eskimo Asian-Pac-Islander Black Other  <=50K 0.011124354 0.028561338 0.108197590 0.009270295  >50K 0.004528503 0.033031433 0.048748002 0.002797017  race  Y White  <=50K 0.842846422  >50K 0.910895045  sex  Y Female Male  <=50K 0.3826866 0.6173134  >50K 0.1481087 0.8518913  capitalgain  Y [,1] [,2]  <=50K 148.9004 936.4124  >50K 3937.6798 14386.0600  capitalloss  Y [,1] [,2]  <=50K 53.35302 309.9476  >50K 193.75067 592.8256  hoursperweek  Y [,1] [,2]  <=50K 39.34856 11.95104  >50K 45.70658 10.73699  native  Y Cambodia Canada China Columbia Cuba  <=50K 0.0004855869 0.0031342427 0.0021189246 0.0023837902 0.0029576657  >50K 0.0009323388 0.0047948855 0.0026638253 0.0002663825 0.0033297816  native  Y Dominican-Republic Ecuador El-Salvador England  <=50K 0.0028693771 0.0010153181 0.0040171280 0.0024720788  >50K 0.0002663825 0.0005327651 0.0011987214 0.0039957379  native  Y France Germany Greece Guatemala Haiti  <=50K 0.0006621640 0.0037081181 0.0009270295 0.0026486558 0.0016774820  >50K 0.0015982952 0.0058604156 0.0010655301 0.0003995738 0.0005327651  native  Y Honduras Hong Hungary India Iran  <=50K 0.0004855869 0.0005738754 0.0004414426 0.0026486558 0.0010594623  >50K 0.0001331913 0.0007991476 0.0003995738 0.0053276505 0.0023974427  native  Y Ireland Italy Jamaica Japan Laos  <=50K 0.0008387410 0.0019423476 0.0030900984 0.0015891935 0.0006621640  >50K 0.0006659563 0.0031965903 0.0013319126 0.0030633990 0.0002663825  native  Y Mexico Nicaragua Outlying-US(Guam-USVI-etc) Peru  <=50K 0.0254712400 0.0013684722 0.0006180197 0.0012360394  >50K 0.0043953117 0.0002663825 0.0000000000 0.0002663825  native  Y Philippines Poland Portugal Puerto-Rico Scotland  <=50K 0.0056504657 0.0019864919 0.0013243279 0.0042819936 0.0003972984  >50K 0.0079914758 0.0014651039 0.0005327651 0.0015982952 0.0002663825  native  Y South Taiwan Thailand Trinadad&Tobago  <=50K 0.0025162230 0.0010153181 0.0006180197 0.0007063082  >50K 0.0018646777 0.0025306340 0.0003995738 0.0002663825  native  Y United-States Vietnam Yugoslavia  <=50K 0.9053546992 0.0026045115 0.0004414426  >50K 0.9316728823 0.0006659563 0.0007991476  > salary\_model.pred<-predict(salary\_model,salary\_test)  > salary\_model.pred  [1] <=50K <=50K <=50K >50K <=50K >50K <=50K <=50K >50K <=50K  [11] <=50K >50K >50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K  [21] >50K <=50K <=50K <=50K <=50K >50K <=50K <=50K <=50K <=50K  [31] >50K <=50K <=50K <=50K >50K <=50K <=50K <=50K <=50K <=50K  [41] <=50K >50K <=50K <=50K <=50K <=50K <=50K >50K <=50K <=50K  [51] <=50K >50K >50K <=50K <=50K <=50K <=50K <=50K <=50K >50K  [61] <=50K <=50K <=50K >50K <=50K <=50K <=50K <=50K <=50K <=50K  [71] <=50K <=50K <=50K <=50K >50K <=50K <=50K <=50K <=50K <=50K  [81] <=50K <=50K >50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K  [91] <=50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K  [101] <=50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K  [111] <=50K <=50K <=50K <=50K >50K <=50K <=50K >50K <=50K <=50K  [121] >50K <=50K <=50K <=50K <=50K 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<=50K <=50K  [281] <=50K <=50K <=50K >50K >50K <=50K <=50K <=50K >50K >50K  [291] <=50K <=50K >50K <=50K <=50K >50K <=50K <=50K <=50K >50K  [301] <=50K <=50K <=50K <=50K <=50K <=50K >50K <=50K <=50K <=50K  [311] <=50K <=50K <=50K <=50K <=50K >50K >50K <=50K <=50K >50K  [321] <=50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K  [331] <=50K <=50K <=50K <=50K <=50K <=50K >50K <=50K <=50K <=50K  [341] <=50K <=50K <=50K <=50K >50K <=50K <=50K >50K <=50K <=50K  [351] <=50K <=50K >50K <=50K <=50K <=50K <=50K <=50K <=50K >50K  [361] <=50K <=50K <=50K <=50K <=50K >50K >50K >50K <=50K <=50K  [371] <=50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K  [381] <=50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K  [391] <=50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K >50K <=50K  [401] <=50K >50K <=50K <=50K <=50K <=50K <=50K >50K >50K <=50K  [411] <=50K <=50K <=50K <=50K >50K <=50K <=50K <=50K <=50K >50K  [421] <=50K <=50K <=50K <=50K >50K <=50K <=50K <=50K >50K <=50K  [431] 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<=50K <=50K <=50K <=50K >50K <=50K  [591] <=50K <=50K >50K >50K <=50K <=50K <=50K <=50K <=50K <=50K  [601] >50K <=50K <=50K <=50K >50K <=50K <=50K >50K <=50K <=50K  [611] <=50K <=50K <=50K >50K <=50K <=50K <=50K >50K >50K <=50K  [621] <=50K <=50K <=50K <=50K >50K <=50K <=50K <=50K <=50K >50K  [631] <=50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K  [641] <=50K <=50K >50K <=50K >50K <=50K <=50K <=50K <=50K <=50K  [651] <=50K >50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K >50K  [661] >50K >50K <=50K <=50K <=50K <=50K <=50K >50K <=50K <=50K  [671] <=50K <=50K >50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K  [681] <=50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K  [691] <=50K <=50K <=50K <=50K >50K <=50K <=50K <=50K <=50K >50K  [701] <=50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K  [711] <=50K <=50K >50K >50K >50K <=50K <=50K <=50K <=50K <=50K  [721] <=50K >50K >50K >50K <=50K <=50K <=50K <=50K <=50K <=50K  [731] <=50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K  [741] <=50K <=50K >50K <=50K >50K <=50K <=50K <=50K <=50K <=50K  [751] <=50K <=50K >50K <=50K <=50K <=50K <=50K >50K <=50K <=50K  [761] <=50K <=50K <=50K <=50K >50K >50K <=50K <=50K <=50K <=50K  [771] <=50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K  [781] <=50K <=50K <=50K >50K >50K <=50K >50K <=50K >50K <=50K  [791] <=50K <=50K <=50K >50K <=50K <=50K <=50K <=50K <=50K <=50K  [801] <=50K >50K <=50K >50K <=50K <=50K <=50K <=50K <=50K <=50K  [811] <=50K <=50K >50K >50K <=50K <=50K <=50K <=50K >50K <=50K  [821] >50K >50K >50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K  [831] >50K <=50K >50K >50K >50K <=50K <=50K <=50K >50K >50K  [841] <=50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K  [851] <=50K <=50K >50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K  [861] <=50K >50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K  [871] <=50K <=50K <=50K <=50K >50K <=50K <=50K <=50K <=50K <=50K  [881] <=50K <=50K <=50K <=50K <=50K <=50K <=50K >50K <=50K <=50K  [891] <=50K <=50K >50K <=50K <=50K <=50K <=50K <=50K >50K >50K  [901] <=50K <=50K <=50K <=50K <=50K >50K >50K >50K <=50K <=50K  [911] <=50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K >50K <=50K  [921] <=50K >50K <=50K <=50K <=50K <=50K <=50K >50K <=50K <=50K  [931] <=50K <=50K <=50K <=50K >50K <=50K <=50K >50K <=50K <=50K  [941] <=50K <=50K <=50K <=50K <=50K <=50K >50K <=50K <=50K <=50K  [951] <=50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K >50K  [961] >50K <=50K <=50K >50K <=50K <=50K <=50K <=50K <=50K >50K  [971] <=50K <=50K >50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K  [981] <=50K <=50K <=50K <=50K >50K >50K >50K <=50K <=50K <=50K  [991] >50K >50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K <=50K  [ reached getOption("max.print") -- omitted 14060 entries ]  Levels: <=50K >50K  > mean(salary\_model.pred==salary\_test$Salary)  [1] 0.8187251  > library(gmodels)  > CrossTable(salary\_model.pred,salary\_test$Salary,prop.chisq = FALSE,prop.r = FALSE,dnn=c("predicted","actua"))    Cell Contents  |-------------------------|  | N |  | N / Col Total |  | N / Table Total |  |-------------------------|    Total Observations in Table: 15060    | actua  predicted | <=50K | >50K | Row Total |  -------------|-----------|-----------|-----------|  <=50K | 10549 | 1919 | 12468 |  | 0.929 | 0.519 | |  | 0.700 | 0.127 | |  -------------|-----------|-----------|-----------|  >50K | 811 | 1781 | 2592 |  | 0.071 | 0.481 | |  | 0.054 | 0.118 | |  -------------|-----------|-----------|-----------|  Column Total | 11360 | 3700 | 15060 |  | 0.754 | 0.246 | |  -------------|-----------|-----------|-----------| |
|  |
| |  | | --- | |  | |

2)